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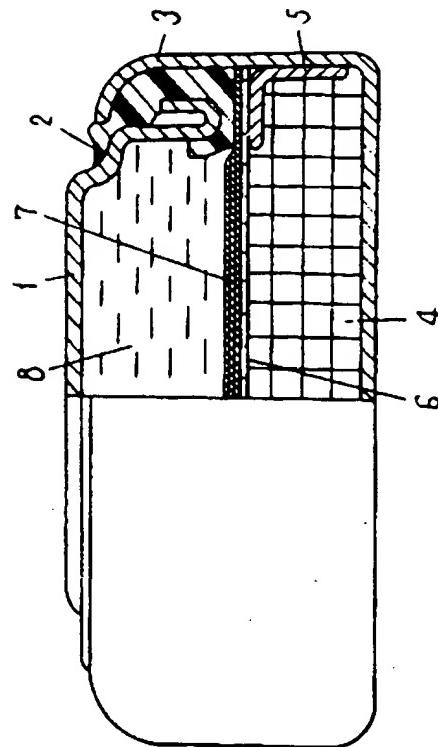
APPLICATION DATE : 30-11-84
APPLICATION NUMBER : 59253136

APPLICANT : MATSUSHITA ELECTRIC IND CO LTD;

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TITLE : ZINC ALKALINE BATTERY



ABSTRACT : PURPOSE: To obtain a zinc alkaline battery having low environmental pollution to decrease mercury content without decreasing corrosion resistance of a negative zinc by using gelled negative zinc obtained by adding zinc powder in a gelled alkaline electrolyte in which mercuric oxide powder is dispersed to amalgamate the surface of the zinc powder.

CONSTITUTION: Zinc powder is added to a gelled alkaline electrolyte in which mercuric oxide powder is dispersed to amalgamate the surface of the zinc powder with mercuric oxide powder. This amalgamated zinc negative electrode 8 is used. For example, sodium polyacrylate is added to 40wt% potassium hydroxide and they are stirred to obtain a gelled alkaline electrolyte. Mercuric oxide powder having a mean particle diameter of 15 μm is added and dispersed by stirring. Zinc powder having a mean particle diameter of 150 μm is added to the gelled alkaline electrolyte and stirred until the surface of zinc powder is amalgamated. By this process, the gelled zinc negative electrode 8 is formed.

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